

IN THE CLAIMS:

Please **amend** claim 2 as follows:

2. (Currently amended) The method as recited in claim 1 wherein the ~~[walls of the]~~ magneto-optical cell comprises one or more layers with walls.

5 Please **cancel** claims 12 & 13 without prejudice:

Please **amend** claim 14 as follows:

14. (Currently amended) The method according to claim 2 wherein [the step of locating a] at least one wall layer of the magneto-optical cell ~~[within the provided magnetic field further includes the step of]~~ provides:

- 10 i. ~~[creating]~~ a display composed of one or more oriented pixel elements ~~[comprising at least one wall layer of the magneto-optical cell]; and~~

further including a step of:

- ii. orienting each pixel element within the display to control the light transmission properties of each pixel in accordance with the relative orientation of each pixel to the direction of the provided magnetic field.

15 Please **amend** claim 15 as follows:

15. (Currently amended) The method according to claim 14 and further including the steps of:

- 20 iii. orienting each pixel element within the display for providing at least one visual image relative to ~~[the]~~ coordinates of the display;
- iv. successively varying the direction of the provided magnetic field relative to the orientation of the display for producing successive visual images.

Please **amend** claim 16 as follows:

16. (Currently amended) The method according to claim 2 wherein [the step of locating a] at least one wall layer surface of the magneto-optical cell [~~within the provided magnetic field further includes the step of~~] provides:

5 i. [~~creating~~] a display composed of one or more oriented pixel elements
[~~comprising at least one wall surface of the magneto-optical cell~~]; and
further including a step of:

10 ii. orienting each pixel element within the display to control the light
transmission properties of each pixel in accordance with the relative
orientation of each pixel to the direction of the provided magnetic field.

Please **amend** claim 17 as follows:

17. (Currently amended) The method according to claim 16 and further including the steps of:

15 iii. orienting each pixel element within the display for providing at least one
visual image relative to [the] coordinates of the display;
iv. successively varying the direction of the provided magnetic field relative to
the orientation of the display for producing successive visual images.

Please **add** new independent claims 18 & 19 as follows:

18. (New) A method for displaying a magnetic field direction comprising:

- a. providing a magnetic field having a particular direction;
- b. locating a magneto-optical cell containing a magneto-optical material within the provided magnetic field;
- c. providing a source of light for transmission through the magneto-optical cell;
- d. measuring light transmission properties of the magneto-optical cell in relation to changes in the direction the provided magnetic field relative to the orientation of the magneto-optical cell;
- e. polarizing light entering the magneto-optical material in a first direction with a first polarizer; and
- f. polarizing light transmitted by the magneto-optical material in a second direction with a second polarizer, wherein light transmitted by the second polarizer provides an observable bright field.

19. (New) A method for displaying a magnetic field direction comprising:

- a. providing a magnetic field having a particular direction;
- b. locating a magneto-optical cell containing a magneto-optical material within the provided magnetic field;
- c. providing a source of light for transmission through the magneto-optical cell;
- d. measuring light transmission properties of the magneto-optical cell in relation to changes in the direction the provided magnetic field relative to the orientation of the magneto-optical cell;

- 5
- e. polarizing light entering the magneto-optical material in a first direction with a first polarizer; and
 - f. reflecting light transmitted by the magneto-optical material back through the magneto-optical material and first polarizer wherein reflected light transmitted provides an observable bright field.

**COMPLETE LIST OF ORIGINAL, CANCELLED, CURRENTLY AMENDED, AND NEW
CLAIMS SERIATIM**

1. (Original) A method for displaying a magnetic field direction comprising:

- a. providing a magnetic field having a particular direction;
- b. locating a magneto-optical cell within the provided magnetic field;
- c. providing a source of light for transmission through the magneto-optical cell;
- d. measuring light transmission properties of the magneto-optical cell in relation to changes in the direction the provided magnetic field relative to the orientation of the magneto-optical cell.

2. (Currently amended) The method as recited in claim 1 wherein the ~~walls of the~~ magneto-optical cell comprises one or more layers with walls.

3. (Original) The method as recited in claim 2 wherein a cell wall has light transparency properties.

4. (Original) The method as recited in claim 2 wherein a cell wall has light reflecting properties.

5. (Original) The method as recited in claim 2 wherein a cell wall has light polarizing properties.

6. (Original) The method as recited in claim 2 wherein a cell wall has the property of anchoring a liquid crystal director.

7. (Original) The method as recited in claim 1 wherein the magneto-optical cell contains a magneto-optical material.

8. (Original) The method as recited in claim 7 wherein the magneto-optical material is a liquid crystal having dichroic (polarization dependent) light absorption properties.

9. (Original) The method as recited in claim 7 wherein the magneto-optical material comprises types of liquid crystal materials classified as smectic and nematic.

10. (Original) The method as recited in claim 9 wherein the magneto-optical material further includes properties of classes described as discotic and chiral.

11. (Original) The method as recited in claim 9 wherein the magneto-optical material further includes
ferronematic materials.

12. (Canceled)

13. (Canceled)

5 14. (Currently amended) The method according to claim 2 wherein [the step of locating a] at least one
layer of the magneto-optical cell [~~within the provided magnetic field further includes the step of~~]
provides:

i. [~~creating~~] a display composed of one or more oriented pixel elements
[~~comprising at least one wall layer of the magneto-optical cell~~]; and

10 further including a step of:

ii. orienting each pixel element within the display to control the light
transmission properties of each pixel in accordance with the relative
orientation of each pixel to the direction of the provided magnetic field.

15 15. (Currently amended) The method according to claim 14 and further including the steps of:

iii. orienting each pixel element within the display for providing at least one
visual image relative to [the] coordinates of the display;

iv. successively varying the direction of the provided magnetic field relative to
the orientation of the display for producing successive visual images.

20 16. (Currently amended) The method according to claim 2 wherein [the step of locating a] at least one
layer wall surface of the magneto-optical cell [~~within the provided magnetic field further includes~~
~~the step of~~] provides:

i. [~~creating~~] a display composed of one or more oriented pixel elements
[~~comprising at least one wall surface of the magneto-optical cell~~]; and

further including a step of:

- ii. orienting each pixel element within the display to control the light transmission properties of each pixel in accordance with the relative orientation of each pixel to the direction of the provided magnetic field.

5 17. (Currently amended) The method according to claim 16 and further including the steps of:

- iii. orienting each pixel element within the display for providing at least one visual image relative to [the] coordinates of the display;
- iv. successively varying the direction of the provided magnetic field relative to the orientation of the display for producing successive visual images.

10 18. (New) A method for displaying a magnetic field direction comprising:

- a. providing a magnetic field having a particular direction;
- b. locating a magneto-optical cell containing a magneto-optical material within the provided magnetic field;
- c. providing a source of light for transmission through the magneto-optical cell;
- 15 d. measuring light transmission properties of the magneto-optical cell in relation to changes in the direction the provided magnetic field relative to the orientation of the magneto-optical cell;
- e. polarizing light entering the magneto-optical material in a first direction with a first polarizer; and
- 20 f. polarizing light transmitted by the magneto-optical material in a second direction with a second polarizer, wherein light transmitted by the second polarizer provides an observable bright field.

19. (New) A method for displaying a magnetic field direction comprising:

- a. providing a magnetic field having a particular direction;
- b. locating a magneto-optical cell containing a magneto-optical material within the provided magnetic field;
- c. providing a source of light for transmission through the magneto-optical cell;
- d. measuring light transmission properties of the magneto-optical cell in relation to changes in the direction the provided magnetic field relative to the orientation of the magneto-optical cell;
- e. polarizing light entering the magneto-optical material in a first direction with a first polarizer; and
- f. reflecting light transmitted by the magneto-optical material back through the magneto-optical material and first polarizer wherein reflected light transmitted provides an observable bright field.